Hawaiian Gazette.

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WALTER G. SMITH, EDITOR.

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A. W. PEARSON. Manager

After one more session's experience with the Home Rulers Dr. Russel ought to find himself a good Republican with a strong bias towards being a mission-

Austrian scientists have discovered a the foot and mouth disease. If it is good for judges also, Hawali ought to send for two bottles.

en native commissions sent to Wash-ington to see the President between The themselves or Hawaii?

It is altogether significant that when an anti-Republican delegation starts out on an expedition to secure the scalp of a Republican Governor, they confidently count on the co-operation and assistance of Hawaii's absentee Republican national committee man.

If the Royalists, alias the Home Territories, Rulers, alias the Independent-Homequite simple enough to divide into kin-

ment from the Philadelphia Ledger, as

a sample of the whole: The Hawaiian Legislature is half-way one bill, which provided money for its own expenses. The whole time has been taken up in wrangling over rules and points of order. Hawaii seems to be learning the worst of American ways

Memorials testifying to its own industry and good faith will not go far in helping this Legislature at Washing-

which will be poured out to him. He will receive the delegates pleasantly-Beckley will have a fine trip and see what a fine man is at the head of the whole Home Rule party cannot go and respective offices were concerned. meet the President. The travel, education and association would probably send them back real Republicans, instead of whitewashed imitations there

The fact that in refusing to extend the regular session of the Legislature, Governor Dole was acting upon the advice of the unanimous caucus of the Republican members of both the Senate and the House, makes no difference high hopes and expectations which their to those staunch dyed-in-the-wool Republican papers, the Bulletin and Re- them. publican. Such an insignificant fact as the Republican party last November is of no weight whatsover when there fices. Each has worked up through all is the least glimmering shadow of a hope that Dole may be downed. Republican party of Hawaii takes upon itself the full responsibility for refusing an extension of the regular session. It will confidently meet the issue at the next campaign, and the more and the other hybrids and renegades and Mr. Boyd is a strong party worksquirm and squeat and dicker with anti-Republicans the more certain will last campaign. be the success of the party.

The impression that tropical soil, when tickled with a hoe will laugh a harvest, is shared by many, but not by people who till it. There are more pests. the sere of vegetables and fruit in Hawaii than there are anywhere in the A DISGRACE TO THE JUDICIARY . North latitudes, and the soil has properties that require some knowledge of The Republican assumes that Mr. A agricultural chemistry on the part of T. Atkinson is the writer of certain edmature crop-either that or a Chinese cises bim for discussing public questions patience in picking off bugs by hand, and officials while holding an executive The failure of many owners of small office under the Territorial Government tracts of land to have gardens is not. The dividing line between the proper due, as many suppose to indolence, but to discouragement. Buch people have and "pernulous political activity" on tried to raise varingated erops until pay the part of an executive office-holder Intellig to Mawall a success

THE BAIRD INCIDENT.

ounced from the bench by the pre-ding jurist, and two of the men in Never in the history of Hawnii has der and famine. siding jurist, and two of the men in fringed upon the rights possessed by proprietor. the twelve good men and true, whose serum which will protect animals from duty it was to pass upon the evidence. We then had hope that the jury system would not again be tampered with. nor has it been in the Territorial courts.

James Harbottle Boyd, nominated by In the Sodergren case a jury, made the Governor to be Superintendent of up of reputable men, weighed the evi- present anew the gratifying story of less than three, or just enough to com Public Works, was born on the fourth dence and found the defendant not the country's prosperity. Statisticians pensate for unavoidable deaths and of July. It was evidently forordained guilty. There was a kindred case to who have given attention to the sub-still keep the population stationary. The that he was to be an American citizen. be tried next but to the astonishment ject agree in the opinion, says the Kan-deliberations of the Maithusian so-of the bar and the spectators, the sas Chy Journal, that in the fluctua-cleties may appear very absurd, but

ington to see the President between the constitution of them do to benefit either the president between the pr principles of law in free countries, and couragingly large. it is foreign to the traditional practice

If a prosecuting attorney may ar-Rule Republicans, think that President raign a jury and cause its punishment

> Can a judge afford to have it known seat of prejudice; and the rights of

THE NEW APPOINTMENTS.

The Advertiser is still of the opinion that the Territorial officers who failed of confirmation through the Home Rule scheme to appropriate the offices themthe Home Rulers to secure the removal selves, deserved a renomination. Gov of Governor Dole for exercising ernor Dole and the Republican leaders him by thought differently, and they have discretion given him by thought differently, and they have of refusing to extend the united on a selection of new men. Al-Legislative session, is of a piece with though both Mr. Boyd and Mr. Wright their record in the Legislature. President McKinley is too well versed Home Rulers will not carry their cam-in politics to swallow the tale of wee

As to the new men, if their nominaas he does every one; he will listen at-tentively, as he does to all; he will will mark a new era in the history of smile mest captivatingly, as he always Hawaii. There have been many cabidoes-and that will be all-except that net ministers of whole or part Hawaiian blood, but with one or two exceptions, they were little more than figure Republican party. It is a pity that the heads, so far as the real duties of the

Both Mr. Boyd and Mr. Wright are partly of Hawaiian blood. Both come to office with a long preliminary training in the offices in which they are now promoted; and both are practically the first of Hawaiian blood who will have actual as well as nominal control of the two chief executive offices of the Government.

A correspondingly heavy responsibility rests upon them to fill the posttions in such manner as to realize the friends, irrespective of party, have for

They both, especially Mr. Boyd, have the approval of every man elected by the advantage of thorough familiarity with the duties of their respective ofof the grades to be chief assistant their respective departments, and the promotion to be heads of the two departments, is along the lines of the best civil service principles. Both men are in the unique position of being favor-ably considered by the two political the Humphreys, the Gears, the Sewalls parties, although both are Republicans, er, he having been most active in the

Both are "island boys," and enter honorable duties of office amidst a choros of friendly well wishers -a sc what unusual thing in these days of the new Americanism

farmer before he can hope for a Horisis in the Star, and harship critiexercise of the privileges of a citizen

the controlling error of the Republican parties and the second blance and the second der. And it seems likely that a new to the controlling error of the Republican parties parties, political parties ago, and it remains from the beginning of the twentieth

The BAIRD INCIDENT.

on both in and out of his paper an ac- with some 400,000,000 of people. It is
The action of the Federal District tive campaign of personal denunciation true, admits Captain Woodruff, that the Attorney and the Federal Judge in the against Governor Dole and all his po-productive possibilities of the soil are sedergren case seems extraordinary, litical supporters; that in exchange for not the sole measure, for we have interesting the relations mutually borne legislative printing for his paper and stances of countries that increase far in the American courts to a cause at a promise of political support for his beyond their own power of sustaining bar by the judge, the prosecuting at- personal ambitions; he is editorially life. For example, there is England,

the evidence to the jury; and it is the and vindictive politician in Hawaii to- ulation than her own resources can pro-

Here in Hawali there have been at-tempts to partly eliminate the jury of times dispense even-handed and impar-very preposterous, at least to curb its freedem of action tial justice between men, many of At the saturation point the death rate and make it a creature of the judge or whom are his political opponents and and the birth rate must be equal, as of the prosecution. Thus, awhile ago, objects of denunciation in his paper on they now are in China, where there is TUESDAY 1 : : : : : : MAY 7 a jury, having done its duty, was de- the very day, that their cases are a large birth rate and also frightful

the box were dismissed without fees, there been such degradation of judicial says Captain Woodruff, "will never the ultimate result was that the of- dignity and propriety as the shameless telerate such mortality, nor can the surfending judge was forced to retreat exhibition now being presented by the plus migrate, as it has been doing from from his false position and confess that triple character Circuit Judge. Home Europe for 400 years. Yet we nee he had overstepped his powers and in- Rule leader and partisan newspaper have no fear of future famines and per

STORY OF THE STAMPS.

But how about the Federal courts? tables bearing upon the Government's is quite likely that the number of in the Sodergren case a jury, made transactions in postage stamps which children in American families will be that he was to be an American citizen.

John Emmeluth thinks he has located
\$3,000, which went to his fellow Home
Rulers for votes. Good for John! But
If he can really prove his case the
judge will probably call off the Grand
Jury.

Let me see! Were there five or seven native commissions sent to Wash—

Let me see! Were there five or seven native commissions sent to Wash—

The effect of such a proceeding must

be tried next but to the astonishment ject agree in the opinion, says the Kan—

deliberations of the Maithusian socleties may appear very absurd. but
links as Cfly Journal, that in the fluctuations of the revenue which the Governthey are merely discussing things they are merely discussing things they are merely discussing they are mere ent.

Stamp sales afford, and the rise or fall 125 to the square mile, or about 500,000. The effect of such a proceeding must in the aggregate of the individual re- 000. The authorities are, therefore, 40.

> but will naturally try, unless they are show a most remarkable gain during juries strongly infused with the Ameri- the period covered. For example, in spirit of independence, to con- 1881 the stamp sales amounted to \$34.form to the views of the prosecuting 483,503; in 1888 they had increased \$50-attorney and the judge. Such a state 636,321, and last year they reached \$97.-

of Hawaii and the other States and are shown in the ups and downs of the has been found curable in its incipient that, in his court, a conviction is right again perceptible, and it has continued the same insect. This latest discovery

> tributed by the employes of the post. Malaria is a disease so universal in office department 1,500,000,000 pieces, in its range as to comprise vast areas of mous total of 5,324,087,914-almost a tion, as well as the greater portion of quadrupling of the business in the matgrowth, of course, is due to the exten-sion of the free delivery service and tion in the tropics, and, in its guise of other added facilities, but the principal yellow fever, it has converted certain than in the overwhelming tide of pros- spots; for instance, Havana, Vera perity with which this land is blessed. Cruz. Rio de Jareiro, and a large por-

PROBABLE POPULATION.

Dr. H. S. Pritchett, in the Popular Science Monthly, has been making some white race to flourish in the tropics, estimates of the probable population With the source of the evil known, and ferent periods of its future existence, will not the dictum itself lose its authorbasing his figures on what he calls the ity, and the vast tropical regions, the doctors are striving to show that the added to the subject matter of his discourse. With- the white race? out following the doctor's statistics present time.

to consideration the impossibility of inease beyond the "saturation point."

He says: and, as we approach our saturation covered to be. upon the discharge of the onerous and point, our rate will diminish rapidly to zero. We do not knew what our satur- preventive. nore than enough for our twenty peodways been populated to their limit, certain, water rises with the temperature. fronting land. Denmark, for 3.00 stance, could support but 500 paleo-lithic people, and when their cultists rose to the level of the present Pata-

per; that he is directing and carrying stationary at about the same torney and the jury.

In the United States, save in this inlegral part of them, it is the business lature, and is the active confidential of her entire food supply. Thus a manof the Judge to tell the Jury the law: adviser of the Home Rule party, ufacturing nation that can buy food of the prosecuting officer to present. In fact he is the most active, violent abroad will support a much denser popexclusive function of the jury to decide, day.

Thoroughly cleanse the sy tide for. But giving every possible upon the evidence and the law thus presented, whether the prisoner is guilty or innocent.

Thoroughly cleanse the sy tide for. But giving every possible to the ability of the United the humors on which this all guilty or innocent.

Thoroughly cleanse the sy tide for. But giving every possible to the ability of the United the humors on which this all guilty or innocent.

> destruction of life by pestilence, murthence, due to overcrowding, and, necessary in India and China, for the solution of the problem will come of it The recently-issued report of the the size of families. By the time we post office department contains some have reached our maximum growth it

MOSOUITOES AND MALARIA.

Among the great achievements of of things must end in miscarriages of 687,771, or nearly three times the total science in the nineteenth century, our justice. It is contrary to the basic which in 1881 was regarded as most en-victories over disease give special disourngingly large. tinction to the closing decade. Con-The ebb and flow of the business tide sumption, the most fatal of all diseases, stamp revenue. In the panic year, 1893, stages by continuous living in pure air; the financial shrinkage was promptly diphtheria has been conquered by the reflected in the lessened demand for anti-toxine remedy; malarial infection gan to be manifest in 1895 a gain was fever infection likewise briginates with The Legislature need not flatter itself that its ways have not been noticed on the mainland. Witness this combar and a nobler type of judge. It the century saw the \$100,000,000 mark value to increase in volume and ratio through is a direct outcome of the occupation of the "fat" years which have followed. Cuba by the United States, and it is until, as mentioned above, the end of probably not too much to say that its bar established fate and a nobler type of judge. It

through its session, and has passed but been guaranteed by the jury system. is the fact that the increase in the This seems to account for the close reone bill, which provided money for its Let no man, least of all, one who sits stamp sales have been relatively in the This seems to account for the close remen against the rule of autocrats have to notice in connection with the report particular virulent form of malaria. Let no man, least of all, one who sits stamp sales has been relatively much semblance of that disease to certain three times as large a sum for stamps one was often mistaken for the other as they did in 1880, when the number by the surgeons. These discoveries will of inhabitants was nearly two-thirds not only effect radical changes in dealas great as it is at present. The most ing with malaria and yellow fever, but astonishing progress, however, although economic results of far-reaching imthe showing is not directly connected portance may be looked for. The with the tabulation of revenues, is evi- quently of the proper methods of treatdent in the numerical increase in the ing them, can hardly fall to change the pieces of mail matter handled. Where- relation of civilization to the tropical as but twelve years ago there were dis- regions of the earth.

> 1900 the aggregate reached the enor- the temperate zone in its fields of infecwork involved. Some of this prevail. It has, therefore, been the cause cannot be looked for elsewhere cities and districts into veritable plague tion of the African coast. Malaria and yellow fever have been chiefly responsiasible for the long accepted dictum that it is physically impossible for the that the United States will have at dif- the remedy accordingly made possible, natural law of increase, and other most fruitful portions of the earth, be undisputed domain doctor doesn't know much about the modern civilization, as represented by

> The white race can live and civilizathrough all of their ramifications, it tion flourish almost anywhere when in-will suffice to say that he fixes the fectious disease is kept away. As a population for 1950 at 200,000,000, and the rule, life is more agreeable for most opulation a thousand years hence at persons in warm weather than in cold, 41,000,000,000, or several times the sum and in mild climate than in a rigorous total of the earth's population at the one. So with proper clothing and diet, life in tropical climates can probably b Of the writers who take issue with made comfortable and healthful. The these figures, perhaps the most interest- main thing is to keep mosquitos away. ing is Charles E. Woodruff, an officer By the proper use of screens, and, per of the United States army. He claims haps, of ointments obnoxious to insects, that the natural law of increase, as there should be no great difficulty in stated by Dr. Pritchett, is a false one, this, so that, with well arranged, portfor the reason that it does not take in- able nettings, it would even be possible to sleep safely in the open Hitherto the needed precautions against these insects have not been taken, since A population below its saturation they have been regarded merely as a point will increase rapidly, but when it painful annoyance, rather than the tersaturates the soil there is no increase, rible pests that they have been dis-

> There are remedial means as well as While infection from mosation point is under present conditions quito bites can be diminished immenseof food production; but we produce far ly by proper screening, etc., it can hardly be wholly avoided. But in case ple to the square mile. We can only this happens, the remedial metdohs stimate our limit, basing it upon the that have been devised promise to make known densities in countries which have the illness slight and recovery almost Professor Koch announces The saturation point rises with civilizae that he has been entirely successful tion, just as the saturation point of air with his experiments with inoculation against malaria, both to prevent in Cultivated land is said to produce L600 fection and to cure; and like results times as much food as an equal area are reported from applications of the yellow fever serum of Dr. Bellamaghi

Altogether, the conquest of malaria and yellow fever must mean benefits inestimable for the human race. Here in this country reliew fover has tiones remaind to be a virtue, and then is somewhat standardy and span to detiones remaind to be a virtue, and then
is somewhat standardy and span to detiones on the scheme up to descut. It is
but there is no question as to the
to their and the nection has stood in constant
to their and the nection into the series
all thinks with the nection of the finited states experiment station particularly appears. All the retion particularly appears. All the retion particularly appears and the nection of the command
of the Visited States experiment of the nection of the nection of the nection particularly appears and the nection of the nection particularly appears to particularly appears of principles of a most holding state to the necessary appears to particularly appears to the command
of the Visited States in the retion particularly appears at the command
of the North particular in the retion particular in the retion

Salt Rheum

It may become chronic.

It may cover the body with large infiamed, burning, itching, scaling patches and cause Intense suffering. It has been known to do so.

Do not delay treatment.

Thoroughly cleanse the system of the humors on which this ailment de-

The medicine taken by Mrs. Ida E. Ward. Cove Point, Mrl., was Hood's Sarsaparilla. She writes: "I had a disagreeable itching on my arms which I concluded was sait rheum. I began taking Hood's Sarsaparilla and in It was not long before I was cured, and I have never had any skin

Hood's Sarsaparilla

Promises to cure and keeps the promise. It is positively unequaled for all cutaneous eruptions. Take it.

century, at whose trshold these discoveries were made,-Boston Herald,

SCIENTIFIC MISCELLANY.

terrupter, and they travel in either direction, burning a deep track in the wood. The balis are started by touching the wood with pointed terminals, brought near together, the gap being then lengthened.

The novel form of incandescent lamp devised by Ch. Petersen, of Christiana, is claimed to yield a stronger light than the Nernst lamp, with about the same saving of electric current. The light-radiating material is a small rod-instead of a thread-that becomes a conductor only when heated, and around this is wound a thin metal wire of good conductivity Rod and wire are connected with the current conductors by equalizing re-sisters, which serve to heat the rod and increase the current resistance. The current is mostly taken up by

Recent products brought to the no-tice of French engineers by M. Leon Appert include glass stone, glass strengthened by enclosed metallic net-work, opaline glass, and glass perfor-ated to facilitate ventilation. The glass stone of M. Garchey is produced by the century saw the \$100,000,000 mark value to humanity is immensely in expectation and the stone of M. Garchey is produced by cooling below fusion a glass rich makes to notice in connection with the report particular virulent form of malaria, is the fact that the increase in the stamp sales has been relatively much greater than that in the country's population. Last year the people spent hospitals at Santiago in expectation expectation. The glass stone of M. Garchey is produced by cooling below fusion a glass rich makes the century and the cooling below fusion a glass rich makes the cooling below fusion a glass rich makes the century of the cooling below fusion a glass rich makes the century in the cooling below fusion a glass rich makes the century of the cost of the war with Spain.

This seems to account for the close restaining to 1,200 degrees the cost of the cost of the war with Spain.

The glass stone of M. Garchey is produced by cooling below fusion a glass rich makes the century of the cooling below fusion a glass rich makes the cooling below fusion a g ordinary glass.

A unique condition exists at Northwich, in Cheshire, England. The pumping of brine from the salt beds under the town causes frequent subsidences, and to remedy this a special system of framing buildings has been adopted so that when a house settles it can be raised on jackscrews and restored to its original position.

On the ice of Greenland Nordenskjold collected three different kinds of dust one consisting of diatoms, the second of a siliceous and apparently feldspathic sand, while the third (con-taining metallic fron, cobalt, nickel, earbon, silicon and phosphorus) was decided to be meteoric matter. The spectra of dust and soot from various sources have been lately studied by Prof. W. N. Hartley and Mr. Hugh Ramage. In dust from the chimneys of factories and dwellings they find more lead, silver and copper than in other varieties, with considerable nickel and manganese, and an especially striking proportion of rubidium, striking proportion of rubidium, gal-lium, indium and thallium. Lime, mag-nesium and the alkali metals seem to be the leading basic constituents of volcanic dust. Soot varies much in the proportions of the substances contain-ed, but is distinguished from other dust of the heavens by its manganese, silver and lead. Dust from the clouds has the greatest regularity of composition, apparently consisting of the same proportions or iron, nicket, calcium, copper potassium and sodium, with much lead in sleet, snow and hail. Nickel in cloud dust is shown to be no positive evidence of meteoric origin, but the magnetic character, appearince and composition of some dust that fell November 16 and 17 strongly to a source beyond the earth.

Studying human food. Prof. Studying human food, Prof. F. Hueppe finds that the anthropoid stock from which man was evolved lived on a mixed diet of nuts, fruit, eggs, small birds and insects. The struggle for existence compelled early man to become carnivorous, being a mammoth hunter in glacial times; and at a later period—after the introduction of fire and cooking—over-nomination in the East in glacial times; and at a later period —after the introduction of fire and cooking—over-population in the East forced upon him rice cating, Cooking was necessary to vegetarianism, as man has neither the teeth nor the digestive apparatus of a herbivorous animal. A vegetarian diet, such as that of Irish peasants, contains an excess of carbohydrates over albumen, and this can be safely borne only when burned up by hard bodily labor and this can be safely borne only when burned up by hard bodily labor in the open air. As a mixed feeder, man attains his greatest longevity and exceeds all other mammals in strength.

The slowness of the old process of tanning leather is due to the difficulty with which tannin penetrates the hide. By passing an electric current through the constantly-circulated bath, heavy leather is now tanned as effectively in six days as in twelve months by the old method.

When argenic is being taken requisely—either medicinally or accidentally in drink or food—it appears that enough is absorbed by the fair to aid in the diagnosis of poisoning. A simple test is to treat the bair with an ammonia copper solution, and then to examine it under a microscop—the har-pith containing a small quantity of argenic being utcharged under a fair-inch objective, but showing small argen granities of copper argenite under a station of importance in original tributes. The amount of argenic is of the tribute in the case of institute that the amount of argenic is often too amali to be determined by it is the case of a patient using the putting as a medi-

BUSINESS CARDS

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HONOLULU STOCK EXCHANGE.

Honolulu, May 6, 1901.

	NAME OF STOCK.	Capita	Val	Bid	Ank
	MERCANTILE.				
	il. Brower & Co. N. S.Sachs' Dry Good	1,000,000	100	1000	476
C -	L. D. Kerr & Co., Ltd	60,000	100	Sept.	*11.5
		2.0000	-		
6	SUGAN	5,000,000	20	200	961
	Ewa Hamos	175,000	100	28%	247.50
1	Haw. Agricultural Co. Haw. Com. & Sug. Co.	1,000,000	100		3071/2
9	Hawaiian Sugar Co	2,812,7/0 2,000,000	100	20	
•	Honomu	750,000	100	170	
t	Honokes.	2,000,000	100	-61	240
	Rahnkn	500.000	20	2814	
	Kihei Plan. Co.Lt. a) Paid up)	1,560,000 1,560,000	50		
	Kipahulu	160.000	100	123	
1	Koloa	800,000	100		165
	McBrede S. Co.Lt. A.	500,000 882,800	100	****	73.
	McBryde S. Co.Lt. A Paid up Nahiku Sugar Co. A	1,680,000	20	11%	
	Nahiku Sugar Co. A	********	20		
	Oann Sugar Co	0,000,000	100	158	156
H	Onomes	1,000,000	20		
	Ookala Olaa Sugar Co. LtAs ;	812,500	20 20	171	18
ы	" Paid up !	2,500,000	20	15	
	Olowalu	150,000	100		150
	Pacific Pacific	5,000,000	100	1.01	****
ú	Pala	750,000	100		
	Pepeekeo	750,000	100	100	1775
8	Pioneer. Waialua Agr. Co	4,500,000	100	11834	115
1	WEITHER.	700,000	100		875
	Waimanalo Waimea	252,000 125,000	100	****	100
ı	STEAMSHIP COS.				
ij	Wilder S. S. Co Inter-Island S. S. Co	600,000	100		100
1	(4)4	500,000	100		105
1	Hawaiian Electric Co.	250,000	100		*****
I	Hon. Rp. Tr. & Ld. Co.	250,000	100	11	
T	Hon. Rp. Tr. & Ld. Co. Hon. Steam Laundry. Mutual Telephone Co.	25,000	100		****
1	O. R. & L. Co.	2,000,000	100	103	10
	O. R. & L. Co People's Ice & Bef. Co.	156,000	100		8734
1	BANKS,				
ł	First National Bank	********	*****	****	110
ı	First Am. Savings Bk. d: Trust Co				
ı	BONDS.	2.83(1.0)(8.0)			30.612
ł	Haw. Govt. 6 per cent.		1004		
ŀ	Haw. Govt. 5 per cent.	*******		98	96
I	vings 414 per cent.				1
1	Hilo R. R. Co. 8 per ct.	:::::::			''icò
1	Ewa Plantation 6 p.c.	*******			102
1	O. R. & L Co			100	
1	Haw. Govt. 6 per cent. Haw. Govt. b per cent. Haw. Govt. Fostal Sa- vings 4½ per cent. Hilo R. B. Co. 6 per ct. Hon. N.T. & L. Co. Ewa Plantation 6 p.c. O. B. & L. Co. Oahu Plant, 6 p. c. Olaa Plant. 6 p. c. Olaa Plant.	******		101	10256
1	OLAS FIRM. 6 p. C	*******	••••		
1					

cine the hair was found to contain ar-senic in the proportion of 0.3 to 10,000; and in a patient who had been using arsenical beer the hair showed as much as 1 part of arsenic in 10,000.

One of the most difficult subjects for the photographer has been the aurora borealis. Even the most brilliant dis-plays have made no impression on the sensitive plate, ad it was only after many trials that Herr Tromholt, in Norway, made the first successful at-tempt to be recorded, securing a pic-ture after an exposure of 8.5 minutes. **B**ensitive An account has just been given by Herr O. Baschin of experiment begun some years ago in Lapland. The sensitiveness of the plates was increased by staining with erythrosine, and it was finally made possible to get good pictures in seven seconds. Next in order will be series of instantaneous views reproducing on a screen the ever-changing forms of the aurora.

Water powers are being actively developed by French engineers to reduce the importation of coal. In the French Alps forty-eight factories now driven by the power of mountain streams transmitted electrically, about 250,000 horsepower being used. It is estimated that 3,000,000 horsepower at estimated that 3,000,000 norsepower at least is still running to waste in the streams of the Alps. Among the schemes in progress is one to convert the lower Rhone into a "gigantic hy-draulic stairway" for the benefit of both manufactures and agriculture.

The French ogvernment is to have an official residence in Washington, and it will be a fine one. Nearly two acres of ground have been bought, well loof ground have been bought, well lo-cated on a high knoll commanding a fine view of the city, and there the famous French architect, Carre, design a home for the embassy design a home for the embassy which shall be the finest speciment of French architecture on this side of the At-

VAN HORNE'S CUBAN RAILWAY.

"We have begun work on both ends of ur Cuban rullroad," said Sir William Van Horne, formerly of Missouri, but nowC anada's leading rallway magnate, to an interviewer the other day, "that will connect the western lines at Santa Cara with the roads near Santiago, The distance between the two points is about forty miles, but there will be branch roads connecting with beth the north and south coasts. We hope to have the work mostly completed in about a year. The road will penetrate a wonderfully productive country, about which very little is known in the United States."

"The Cubans adapt themselves well to the work of railroad building?" "They the work of raticoad building?" "They have been more used to the machete than the shovel," replied fir William. than the shove," replied fir William, "but under kindly treatment they make good progress. Our roads," he added, in answer to further inquiries, "are being constructed in first-class fashion. The bridges are of steel and the rails of the same material. Some difficulties are met with in grading, but the character of country, so far as constructed is the concerned is stand what it would be in building a road through Virgitia." Bit William still suitane the desirements of the fantalise Facilie, but care he is giving much less attaching in that presently happer fathering.